



OEM

**PREPAREDNESS EQUALS
RESILIENCE**

Office of Emergency Management

COAD: Shining the Jewel

Ryan Nicholls

Springfield-Greene County Office
of Emergency Management







2012

- Centre for Research on the Epidemiology of Disasters (CRED)
- 310 Natural Disasters
- 9,930 deaths related to nature disasters
- 106 million people victimized by natural disasters
- 115 countries affected by disasters
- \$180 billion in damages



Missouri Disasters

- | | | |
|----------|----|-----------------|
| • 1980s: | 5 | Every 2 years |
| • 1990s: | 9 | Every 1.1 years |
| • 2000s: | 26 | Every 6 months |



Overload

Resilience



Local Jurisdiction

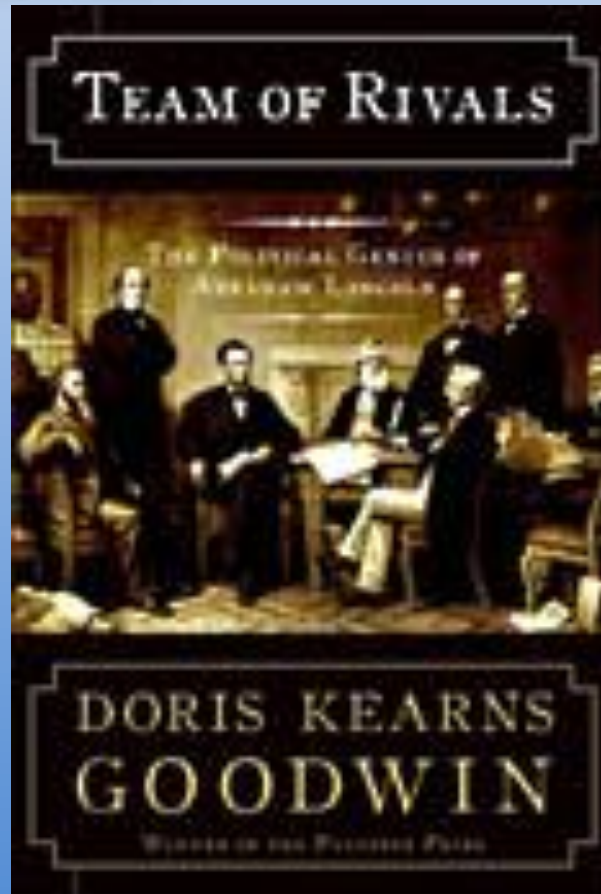
Disaster

The Six Blind Men

For Phat Phish

September 2007

I animated the Film









Office of Emergency Management

PREPAREDNESS EQUALS

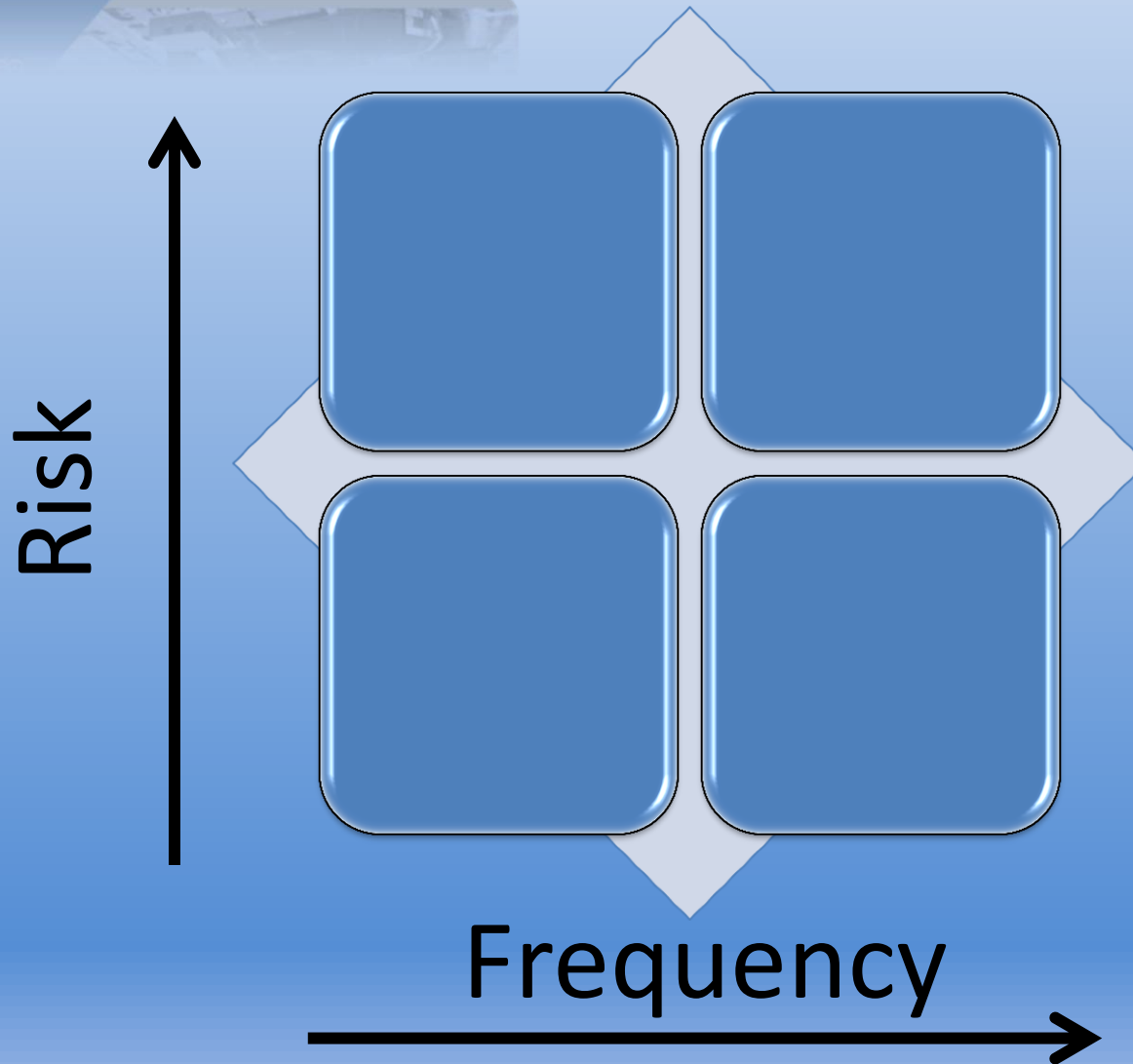
RESILIENCE

RESILIENCE



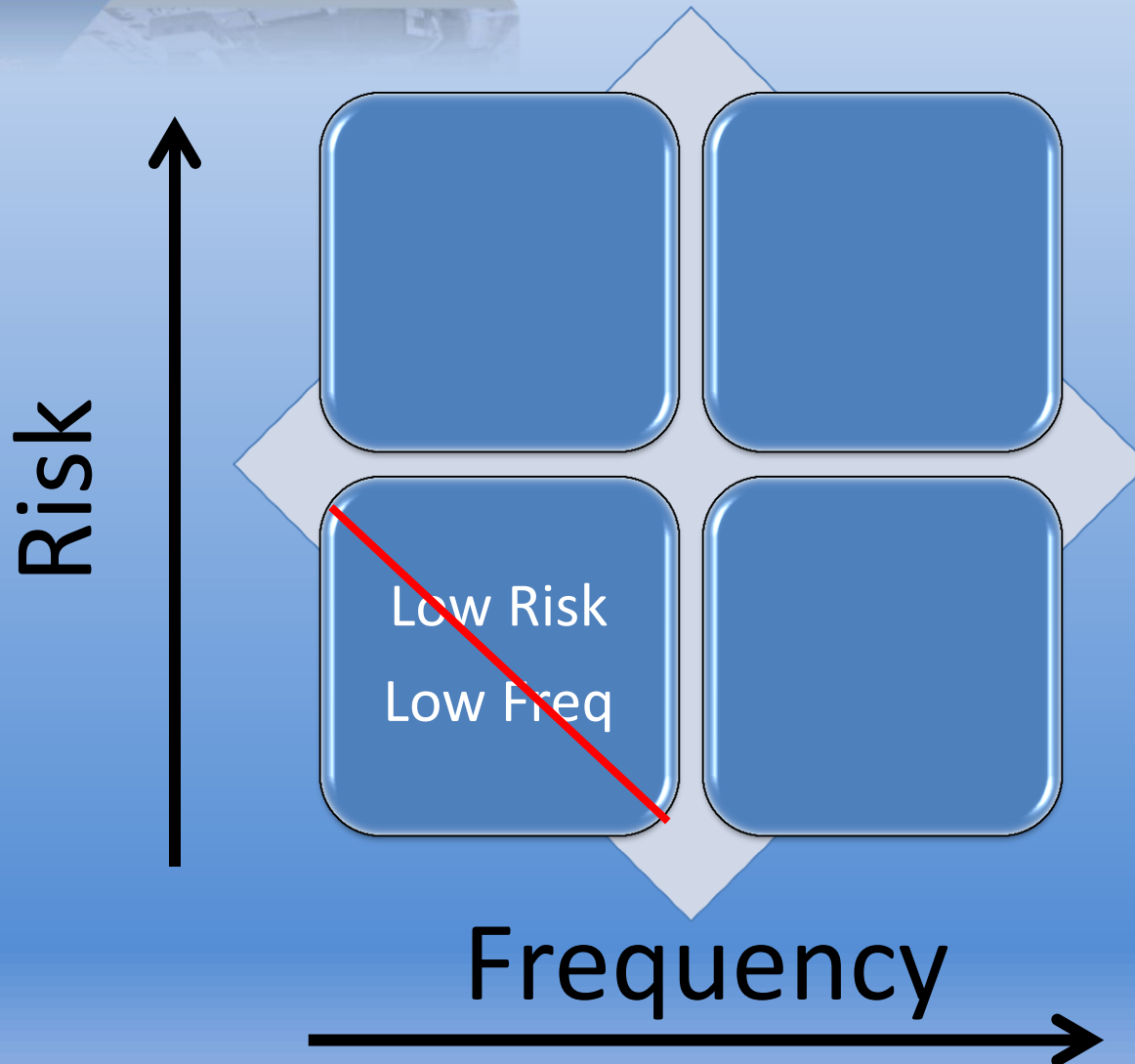


Gordon Graham



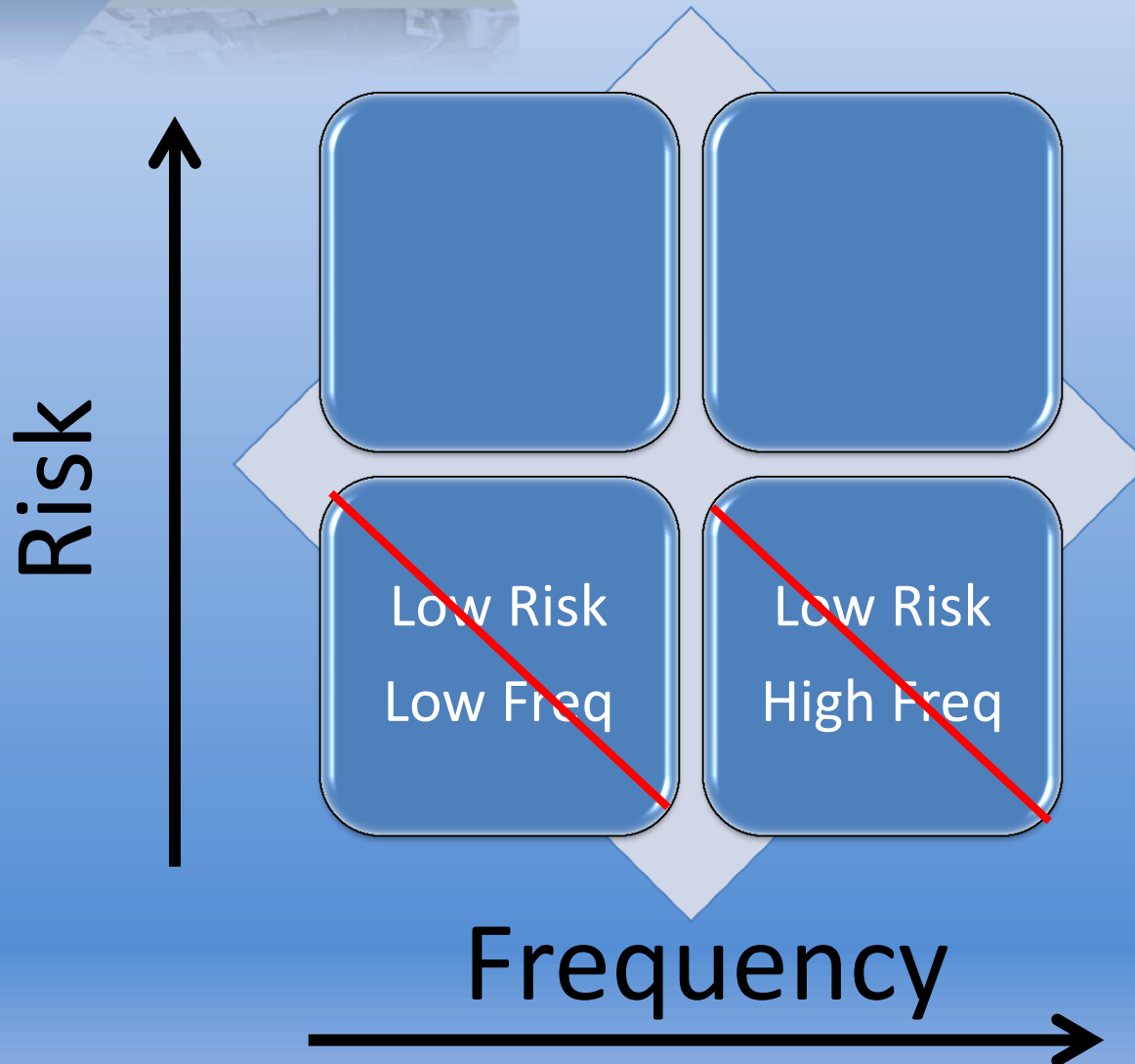


Gordon Graham



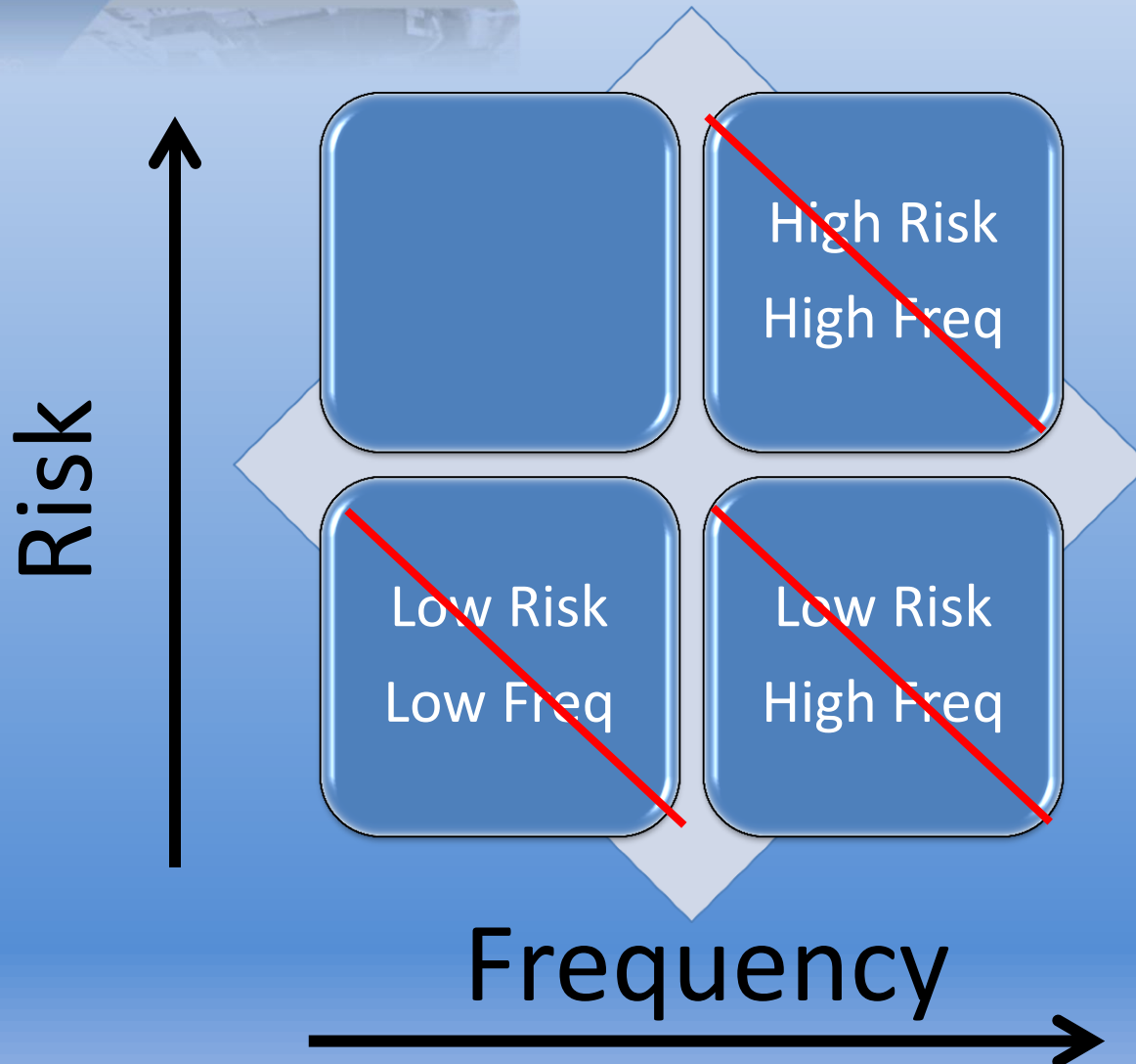


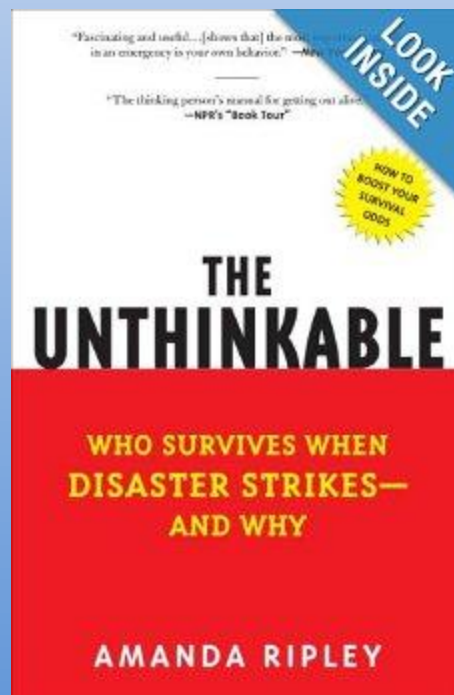
Gordon Graham





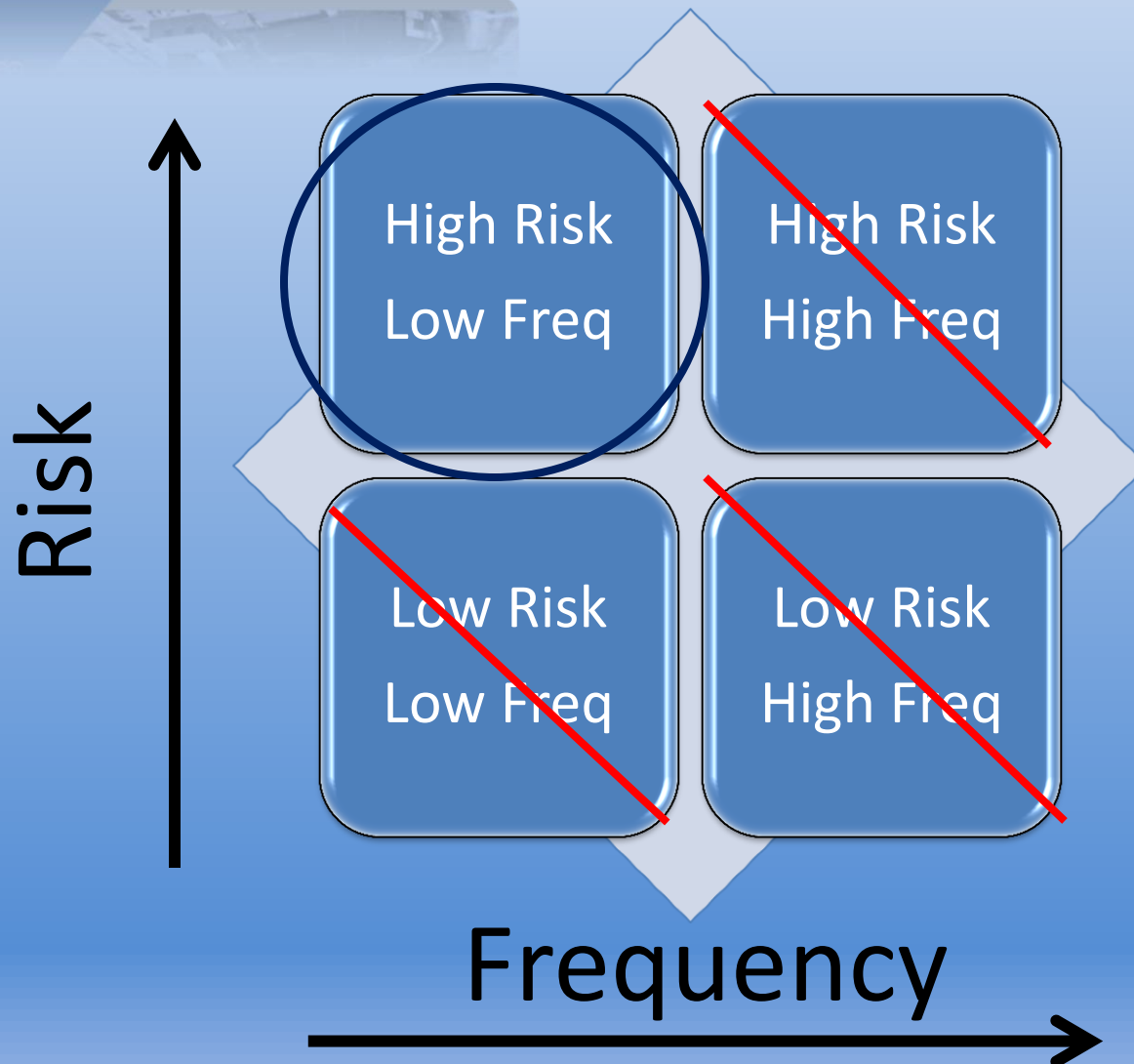
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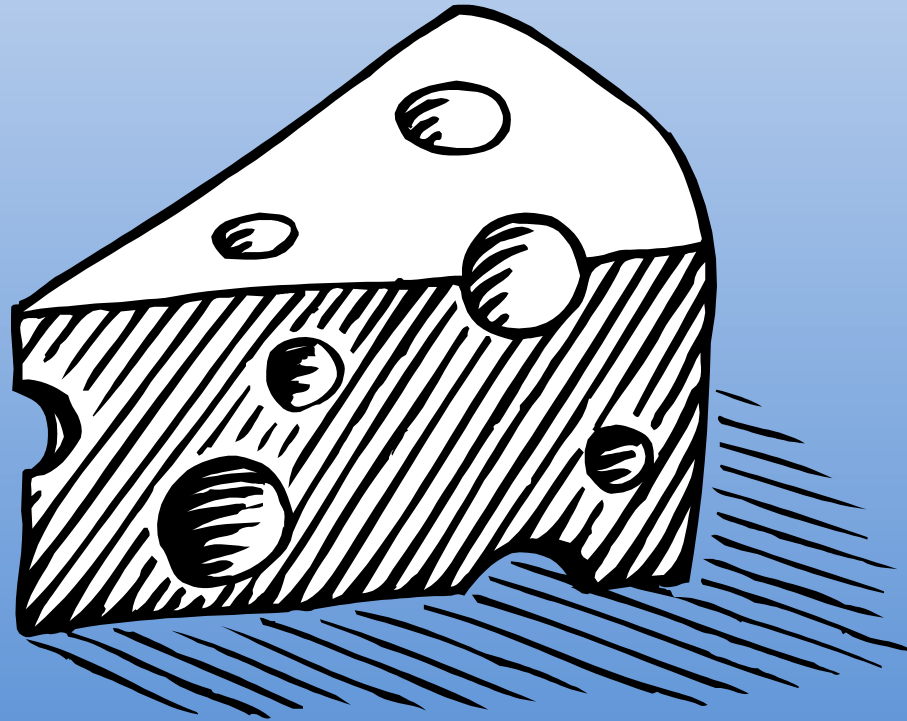




Predictable is Preventable

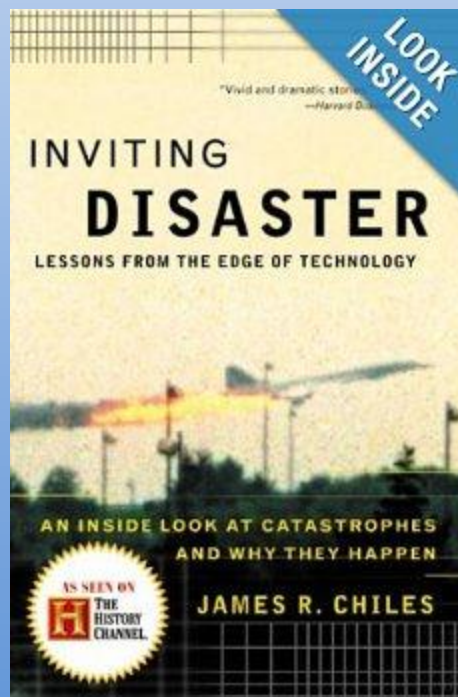


Swiss Cheese



“A trajectory of accident opportunity”

James Reason, University of Manchester 1990







© Aaron Fuhman/Getty Images/Flickr

The aftermath: A 198mph tornado tore a path a mile wide and six miles long straight through Joplin, Missouri devastating all in its wake

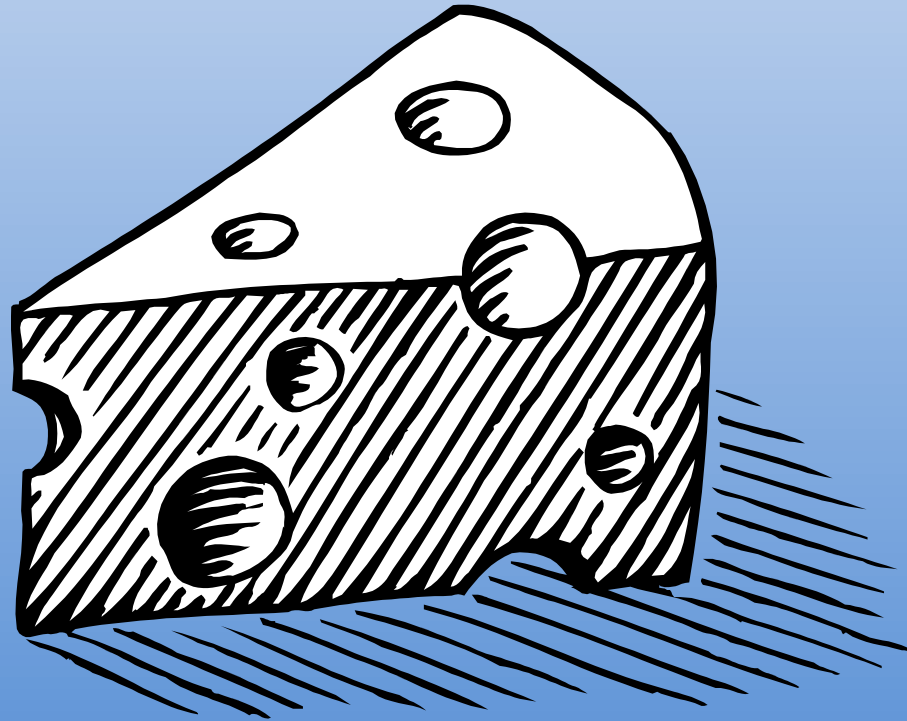


The way things used to be: This Google Street Map view shows the same place as the above picture, before the horrific tornado struck



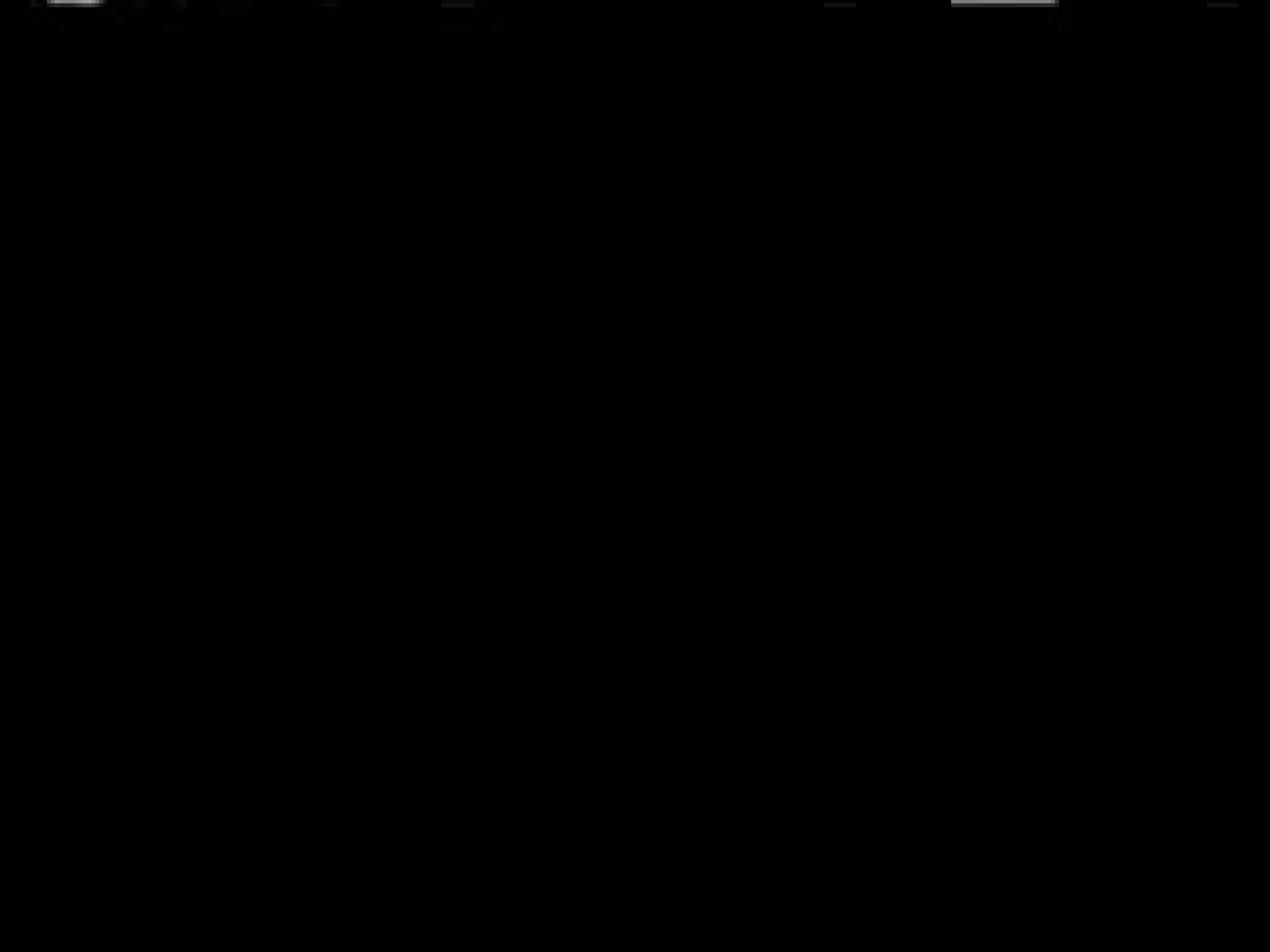


Swiss Cheese



“A trajectory of opportunity”

COAD







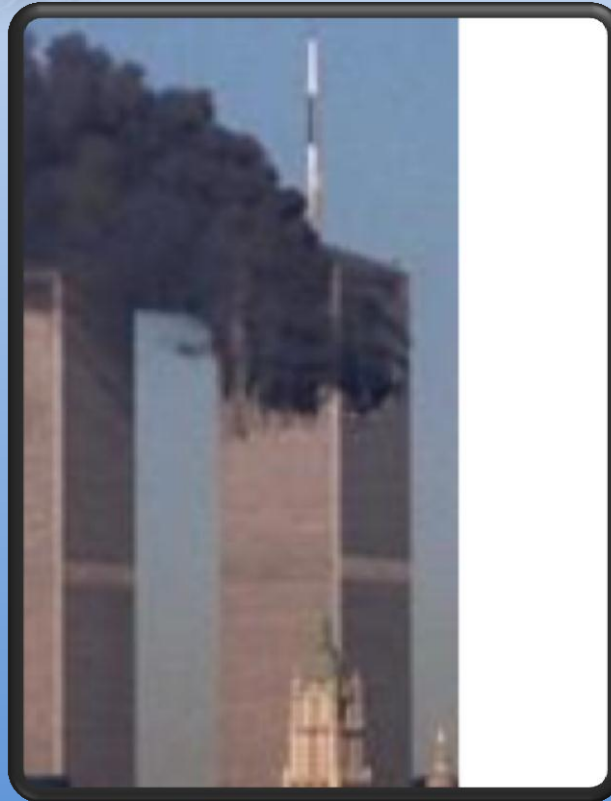
Rick Rescorla



Security Officer, Morgan Stanley



Sept. 11, 2001
8:46 a.m.



Officials advise to stay in place



What now

- Evacuation of 2,700 Morgan Stanley employees in WTC 2 (22 floors)
- 500 employees WTC 5



9:03 a.m.





Rick Rescorla

- “As soon as I make sure everyone else is out”
- Last seen, 10th floor, heading up.



Morgan Stanley

- Operating personnel walked 22 blocks to backup site
- 9:20 a.m. Backup site activated
- 9:30 a.m. Senior management command center activated



Secret Formula

Passion +

Patience +

Participatory Leadership

Successful COAD







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RESILIENCE**

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**“There is nothing stronger
than the heart of a volunteer.”**

— James Doolittle